



SCOPE OF WORK

Supply and delivery of substation material
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Project Specification

SCOPE OF WORK

1.1 Nature of work

- 1.1 The work covers the supply and delivery of 3kV DC traction substation and 11kV distribution substation materials as specified in the bill of quantities (BOQ).

1.1 General

- 1.1.1 Metrorail reserves the right to inspect and/or test any material during delivery.
- 1.1.2 Acceptance of material to be delivered shall be subject to the approval of the Regional Electrical Engineer or the Technical Manager.
- 1.1.3 All material to be supplied by the contractor shall have a minimum of twelve months guarantee after the acceptance of delivery by Metrorail Technical Manager or Electrical Engineer.
- 1.1.4 All work shall comply with SANS standards and Metrorail engineering instructions/specification.

1.3 The following activities form part of this contract:

- 1.3.1 The Contractor shall be responsible for the supply, and delivery of all material as indicated in the attached BOQ.
- 1.3.2 All the material shall be delivered at Capital Park Depot in Pretoria

2. Specification

2.1 Holding coil contact

- 2.1.1 Holding coil contactor, DC, 25KA, 3 pole 25A, 110V DC.

2.2 Delay on timer

- 2.2.1 Delay on Timer -DP1 (Rectifier fan fail) 220V AC coil 0 to 60 seconds.

2.3 Delay on timer

- 2.3.1 Delay on Timer - DP2 (Rectifier Diode and Over temp trips) 220V AC coil

2.4 Delay on timer

- 2.4.1 Delay on Timer DP1 (Rectifier fan Running Time) 220VAC coil 0 to 30 second

2.5 Battery undervoltage relay

2.5.1 110V DC Battery under Voltage (Type = RHOMBERSP200) Relay

2.6 Diode monitor card

2.6.1 24 Way Diode Monitor Card

2.7 Fan controller card

2.7.1 Fan Controller Card – 18/24 (50/80 degree Celsius)

2.8 Power supply unit

2.8.1 Power Supply PSU 120/24 VDC 18/24 Diode React

2.9 Power supply unit

2.9.1 Power Supply PSU 120/24 VDC 18/24 Diode React

2.10 Contactor

2.10.1 Contactor 4KW, 3 Poles, 110V DC coil for track breaker

3. Guarantee and Defects

3.1.1 All equipment or material supplied by the contractor shall be subjected to a guarantee for a minimum of twelve months against faulty or inferior workmanship and material.

3.1.2 Any defects that may become apparent during the guarantee period shall be rectified to the satisfaction of and free costs to Metrorail (PRASA).

3.1.3 The contractor shall undertake work on the rectification of any defects that may arise during the guarantee period within 7 days after being notified by Metrorail Technical Staff.

3.1.4 Should the Contractor fail to comply with the requirements stipulated above, Metrorail shall be entitled to undertake the necessary repair of work or effect replacement of defects apparatus or material, and the contractor shall reimburse the client the total cost of such repair or replacement, including labour costs incurred in replacing defective apparatus or materials.

3.1.5 If urgent repairs must be carried out by Metrorail staff during the guarantee period, the Contractor shall reimburse Metrorail the cost of material and labour.

4. Site Briefing

4.1 Bidders shall attend the site briefing so that they get more clarity before submitting their quotations.

4.2 The site briefing will take place at Capital Park depot in Pretoria.

5. Financial

5.1 Payments shall be made after the delivery of all materials.

5.2 All prices quoted shall be fixed and firm for the duration of the contract.

6. Duration of the contract

6.1 Together with his/her quotation, the bidder shall submit a work program detailing the time frames of each task in the form of a Gantt chart or any acceptable formats.

7. Place of delivery

7.1 All materials shall be delivered to the Electrical Department, Capital Park Depot in Pretoria, by the contractor.

8. Evaluation Criteria

Technical or functional requirements

Functionality and capabilities	Weight
1. Organizational Experience Provide for each successfully completed project/s in the following sequence: Copy of an appointment letter/s on a company letterhead, description of the project, Client's name, Client's contact (i.e., email and office number), Project start date, project end date, extension of time where applicable, contract value inclusive of VAT. Furthermore, attach completion certificate signed by the client or letter from the client confirming successful completion of the project. Score will be based on successfully executed and completed similar projects in the supply and delivery of similar material or any material or supply and installation of substation equipment in the last fifteen (15) years. N.B: Both the appointment letter and the completion certificate/letter from the client should be submitted per completed project for the points to be allocated. Zero (0) Similar Projects/non-submission/incomplete submission = 0 1: 1 Similar project = 20 points 2: 2 Similar projects = 40 points 3: 3 Similar projects= 60 points 4: 4 Similar projects = 80 points 5: 5 similar projects = 100 points	100
TOTAL	100

NB: A minimum of 80% is to be attained on the evaluation criterion stated above for a bidder to be evaluated further.